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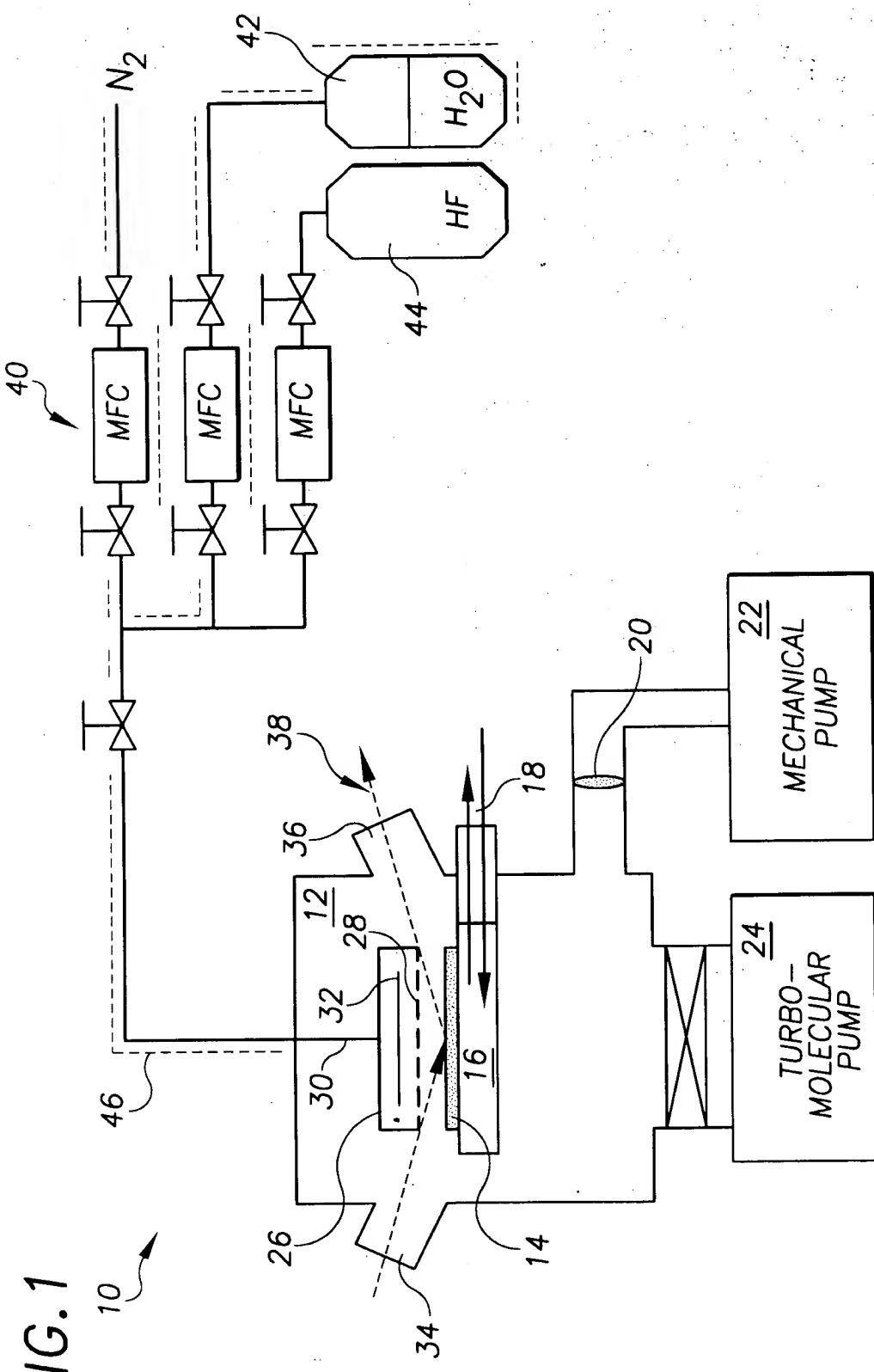
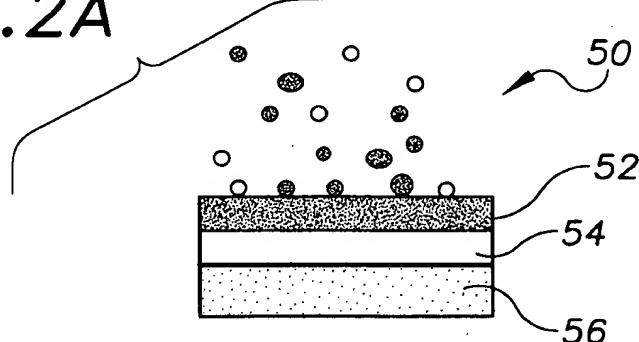


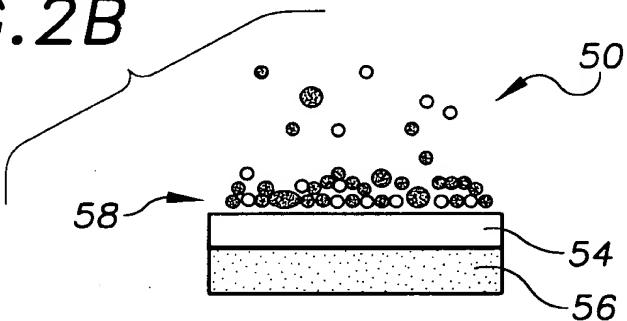
FIG. 1

**FIG. 2A**

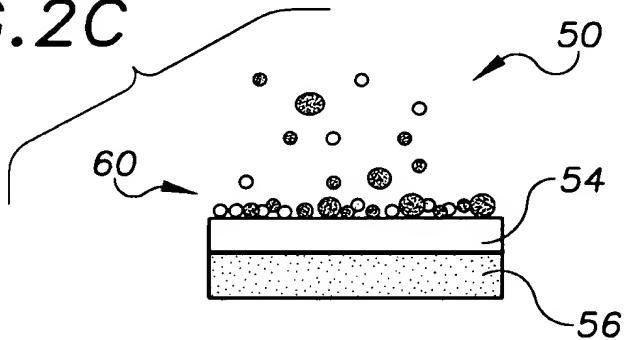
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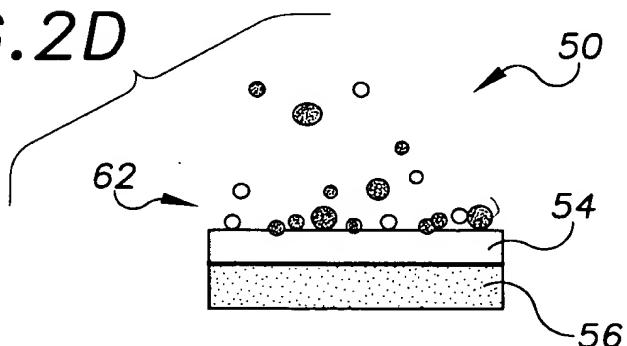
- REACTANTS
- PRODUCTS

**FIG. 2B**

- REACTANTS
- PRODUCTS

**FIG. 2C**

- REACTANTS
- PRODUCTS

**FIG. 2D**

- REACTANTS
- PRODUCTS

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FIG. 3A

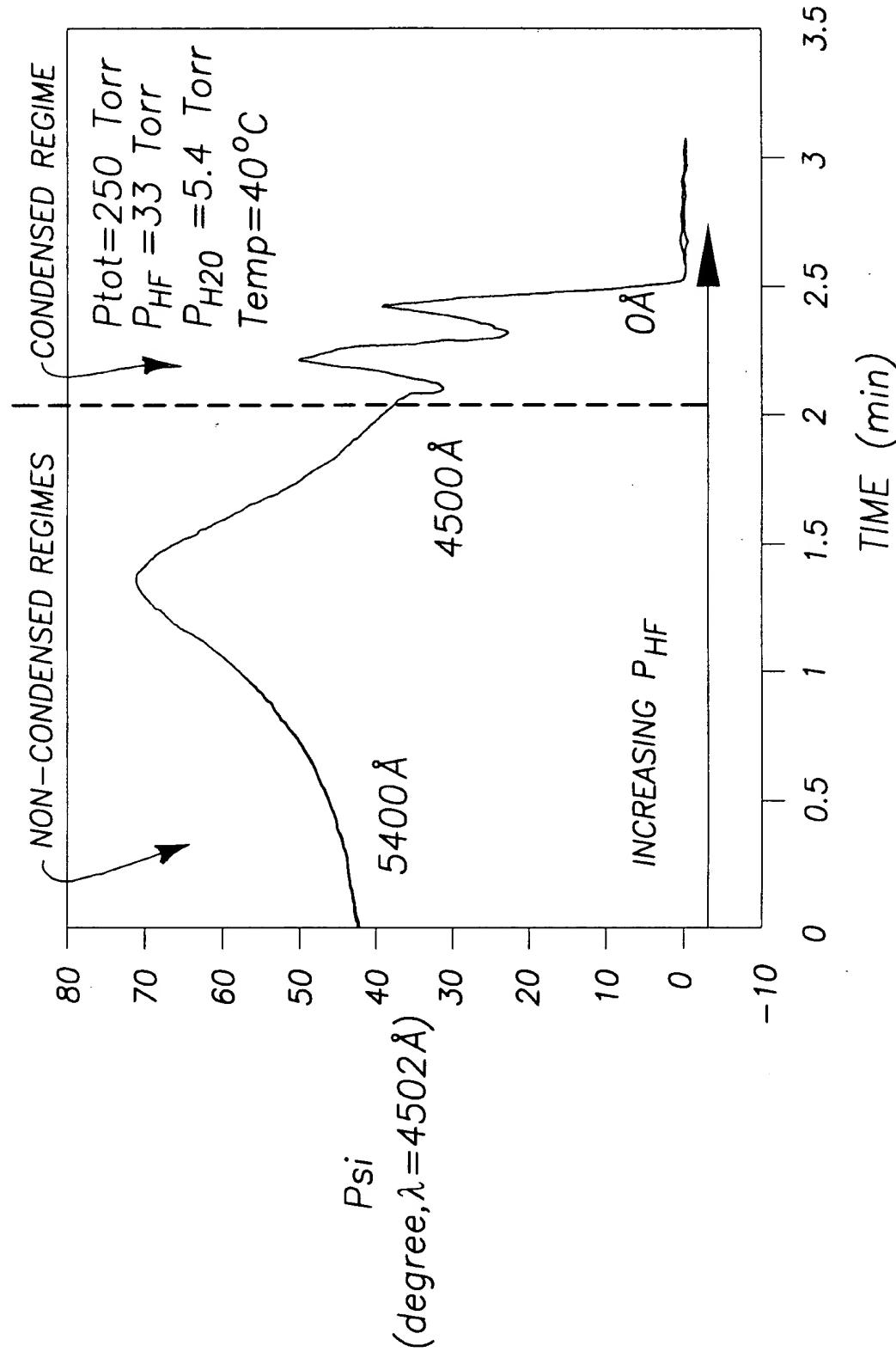


FIG. 3B

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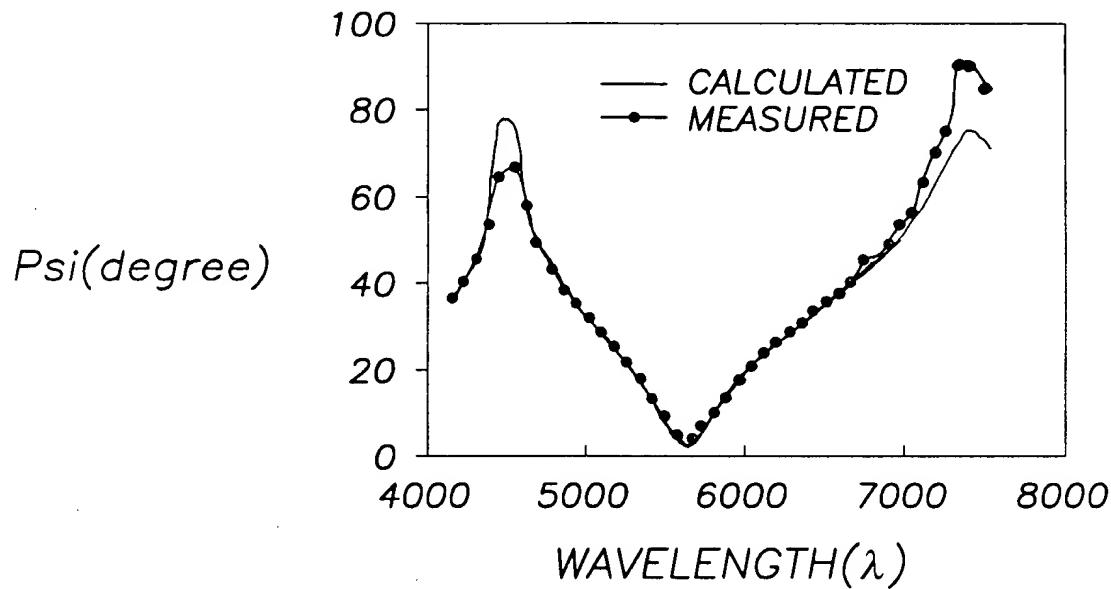
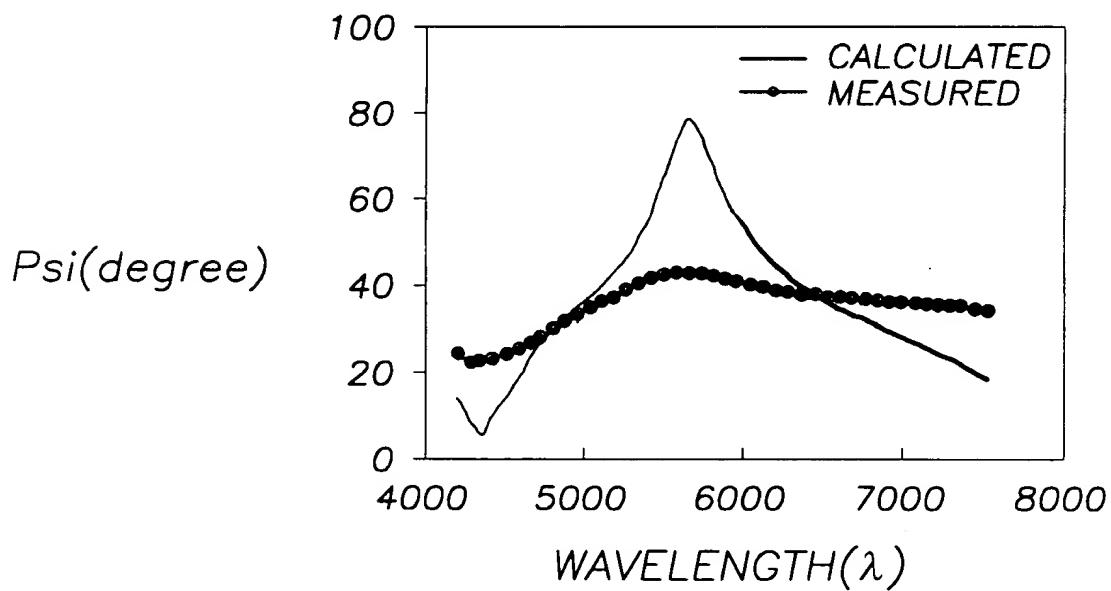


FIG. 3C



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FIG. 4A

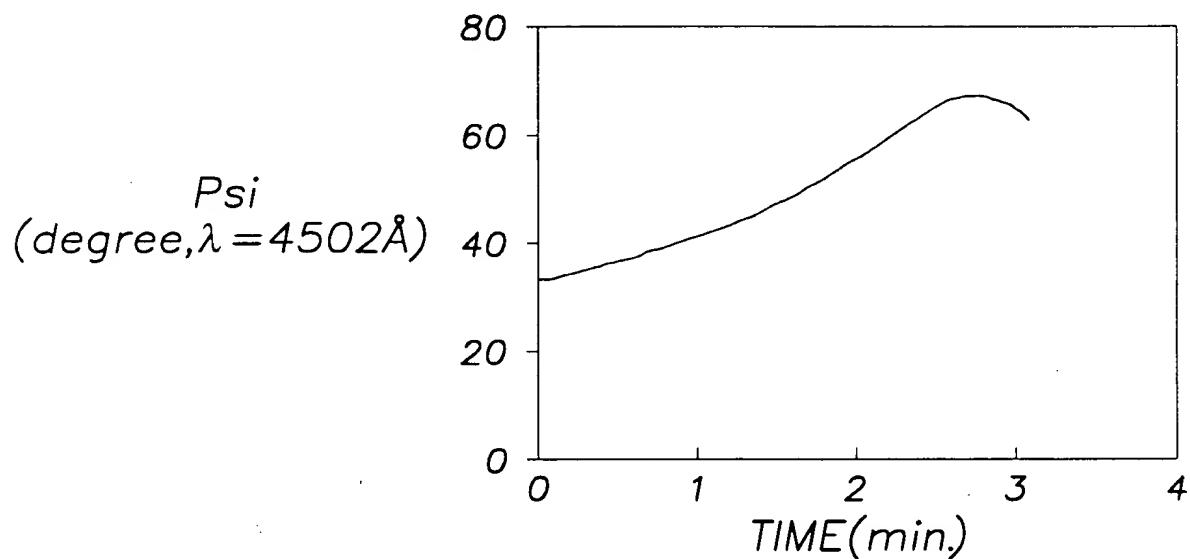
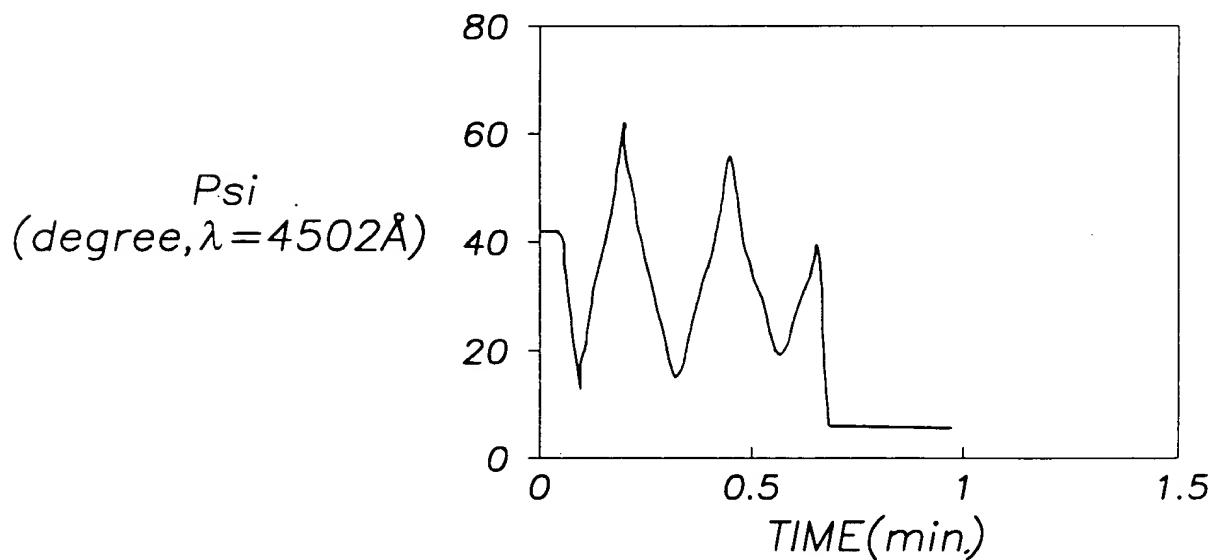
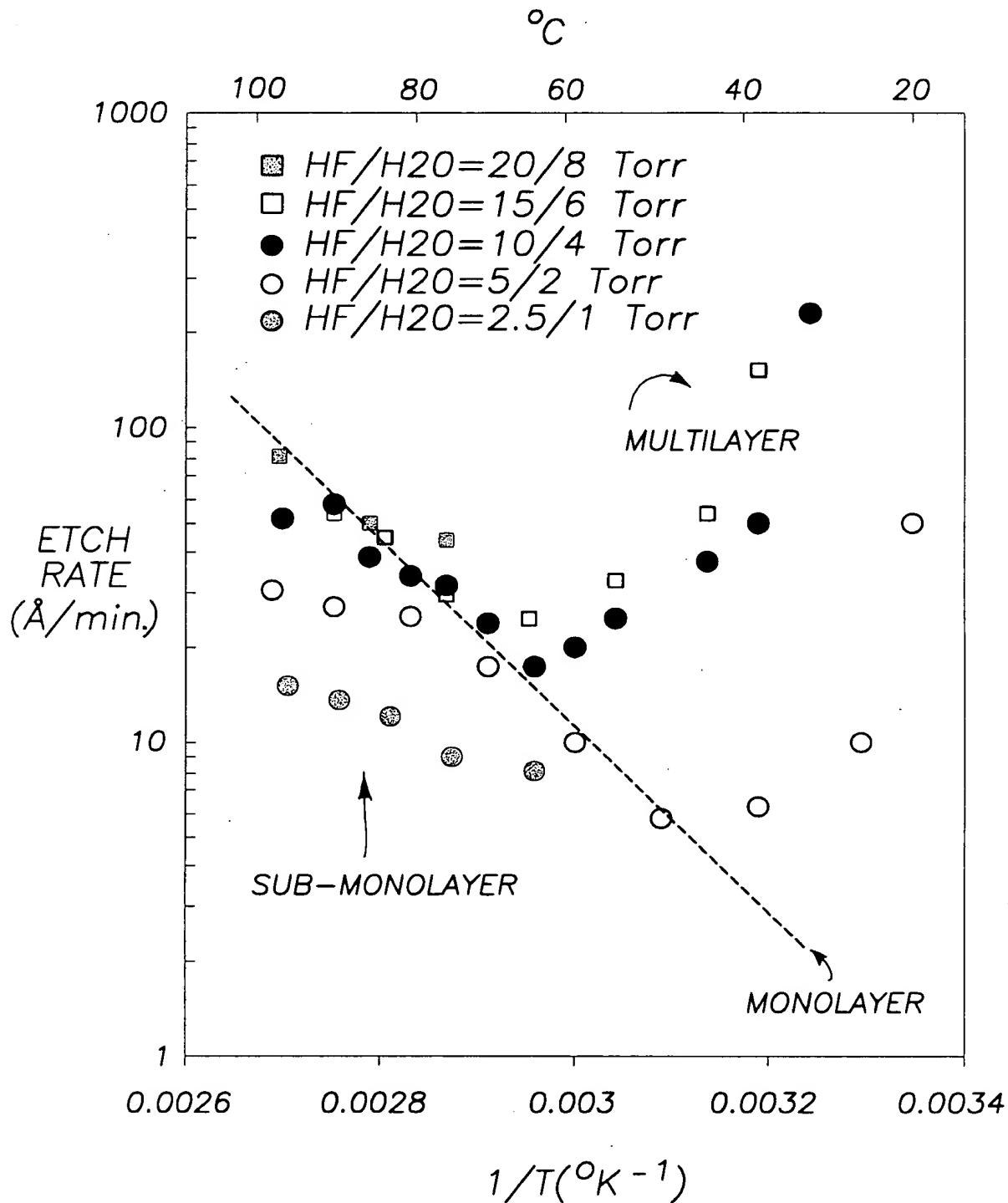


FIG. 4B



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FIG.5



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FIG. 6

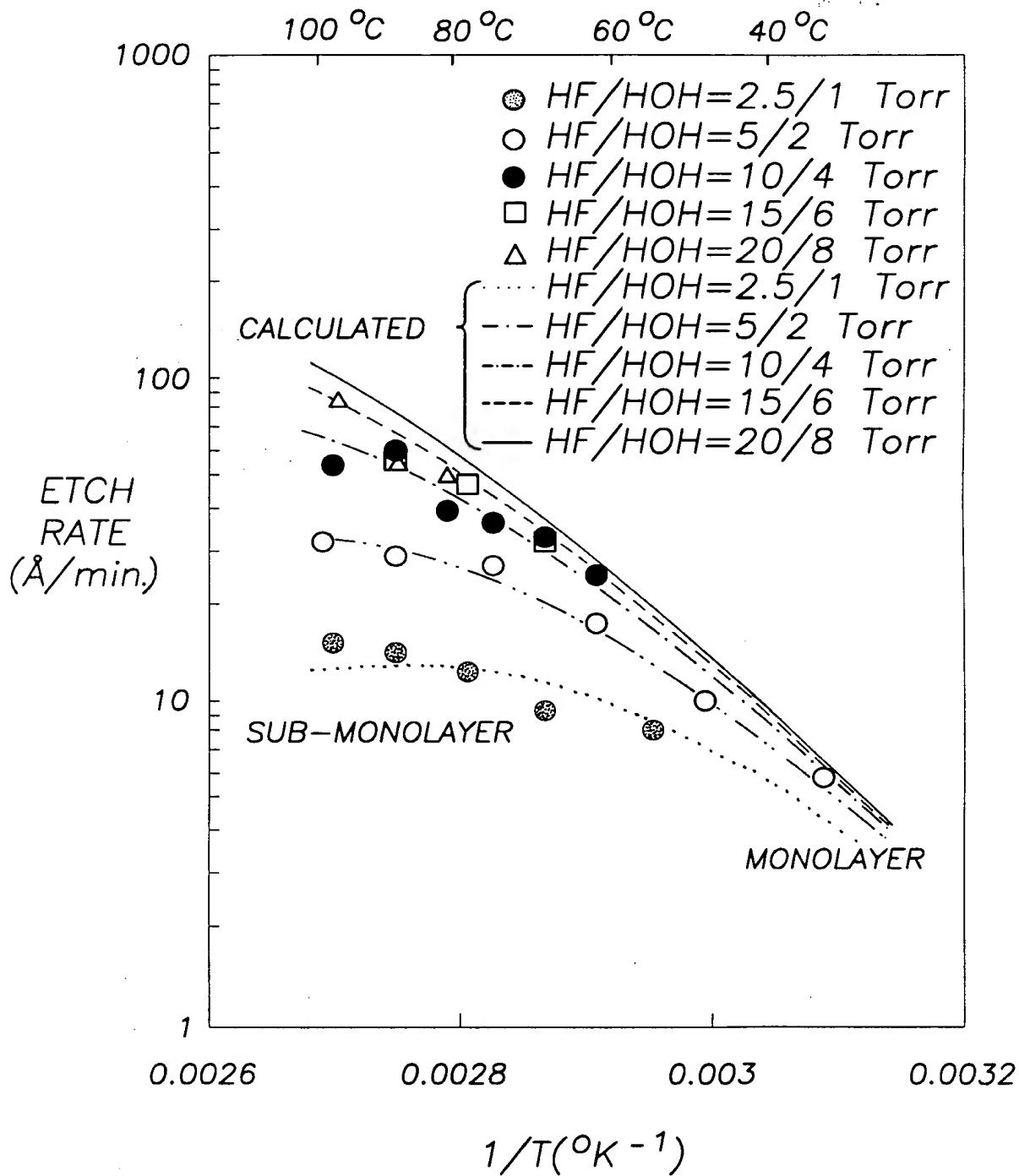


FIG. 7A

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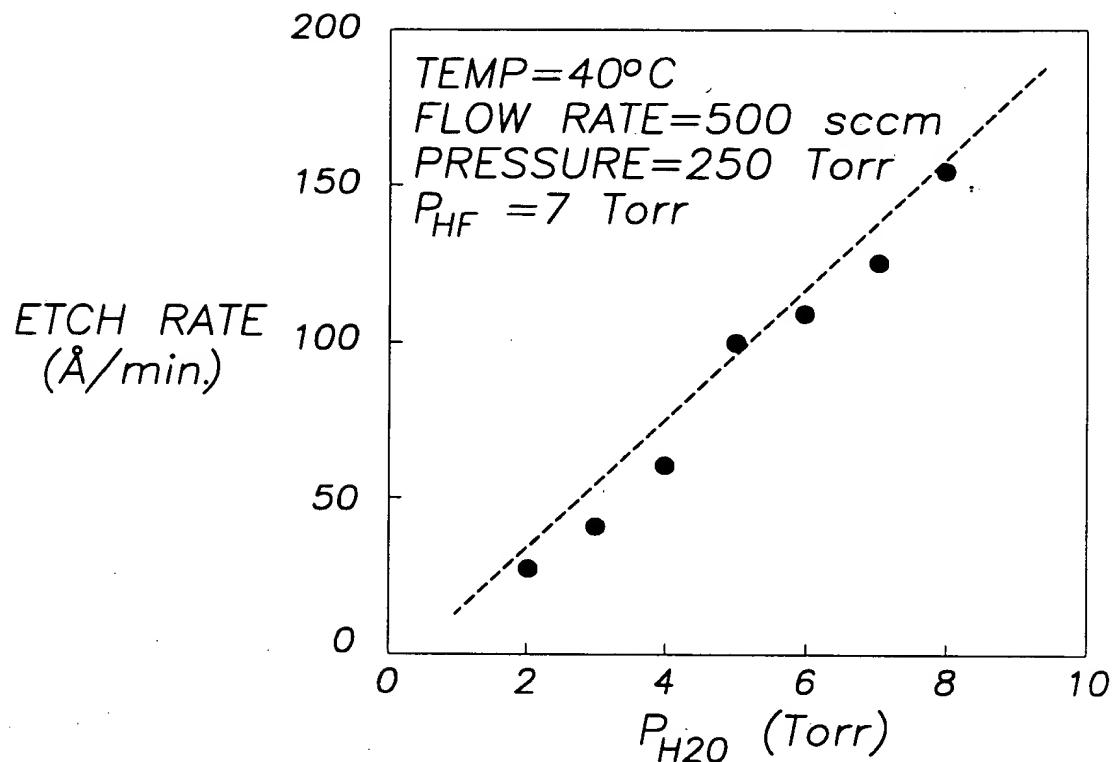
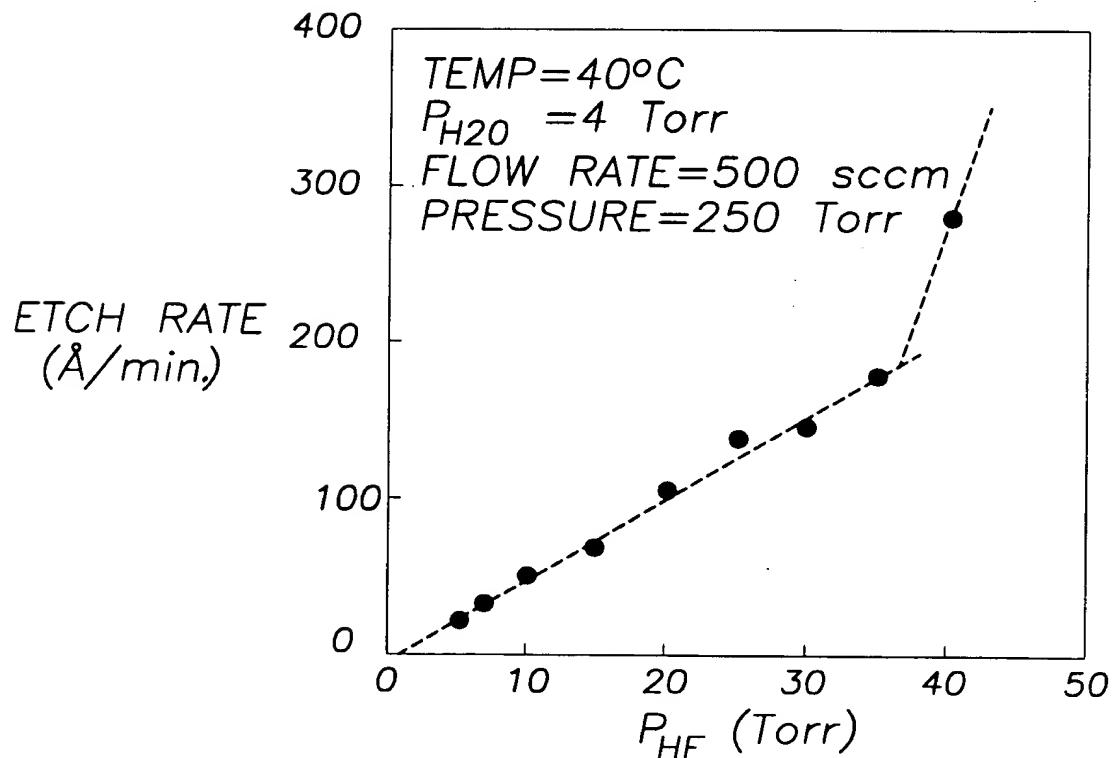


FIG. 7B



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FIG. 8A

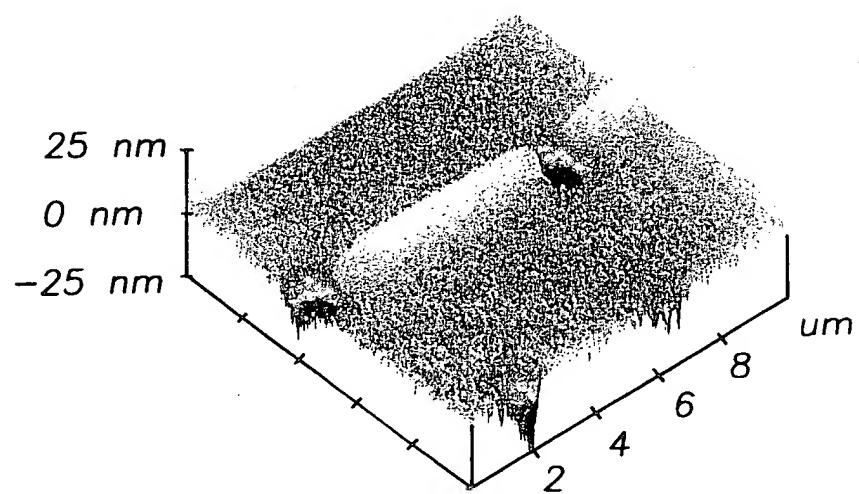


FIG. 8B

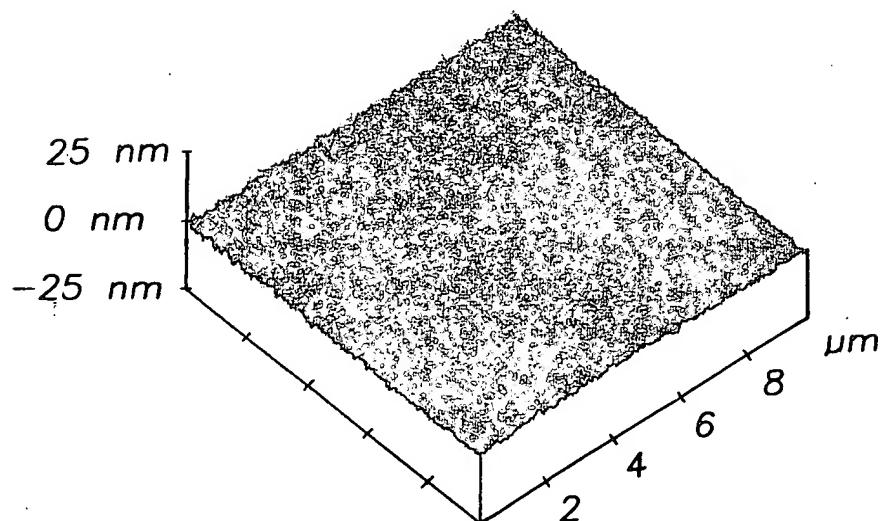


FIG. 9A

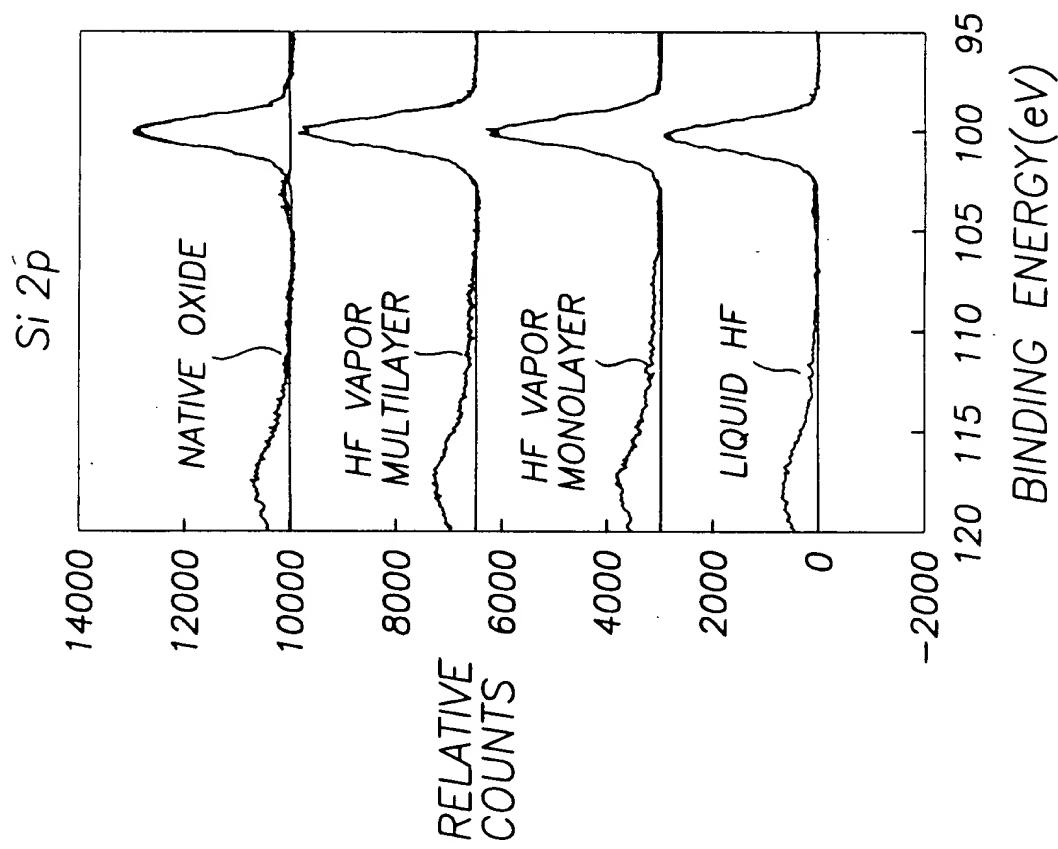
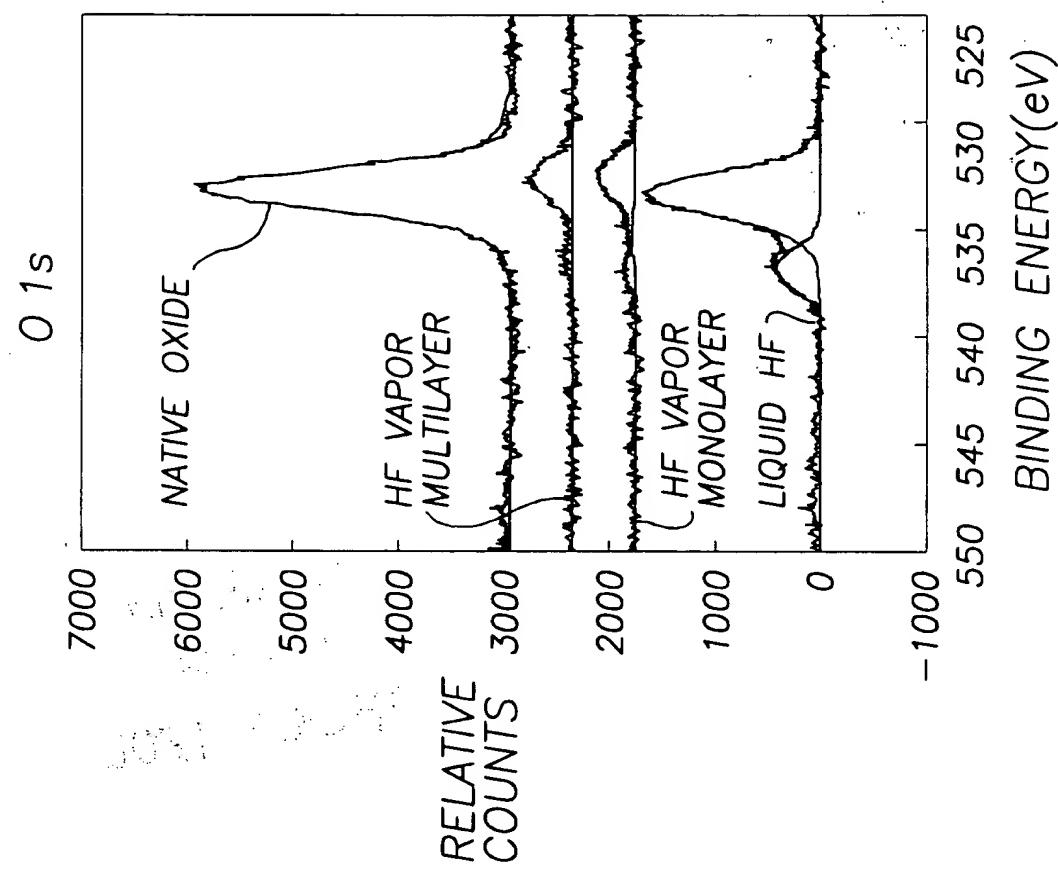


FIG. 9B



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FIG. 9C

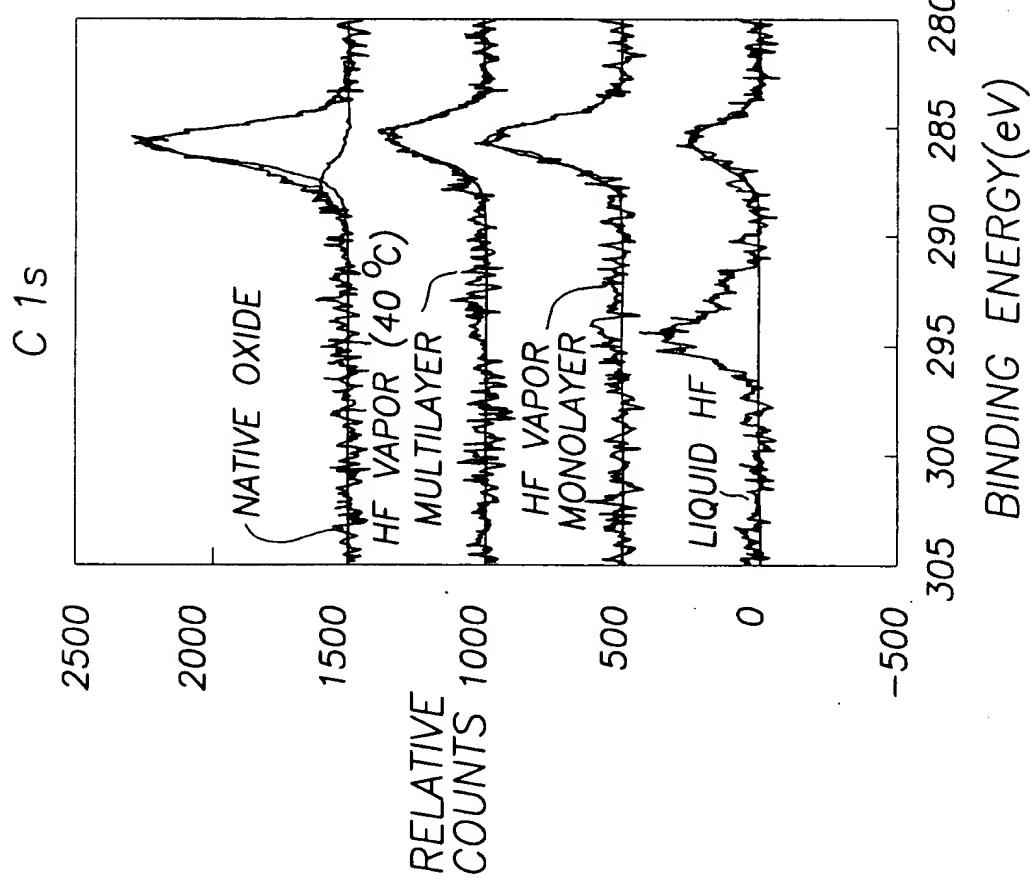
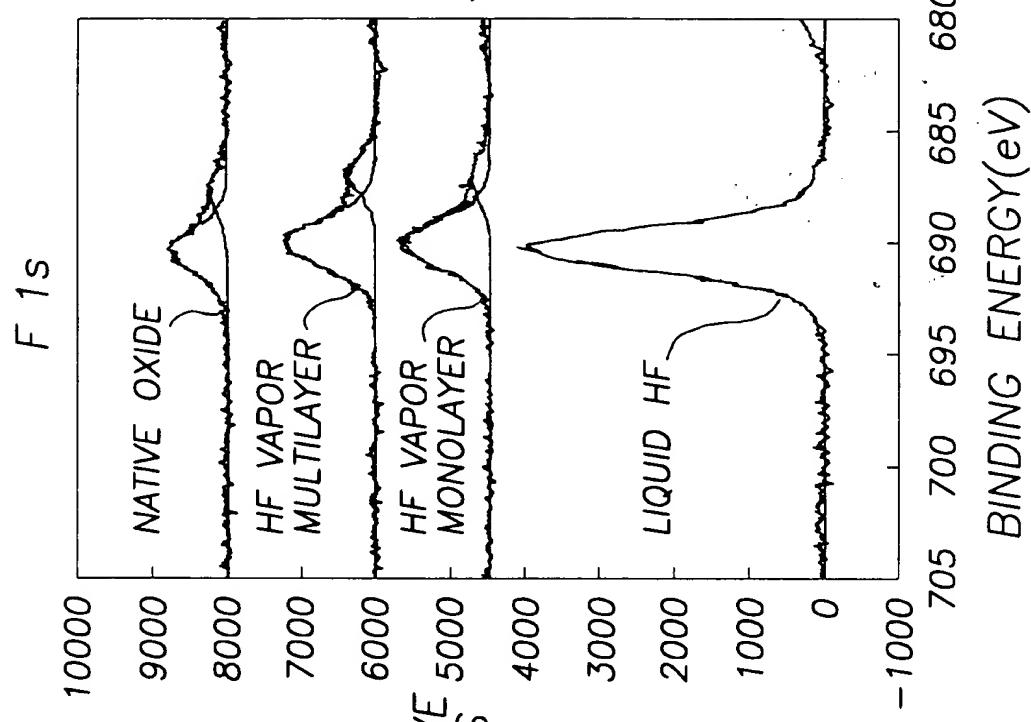
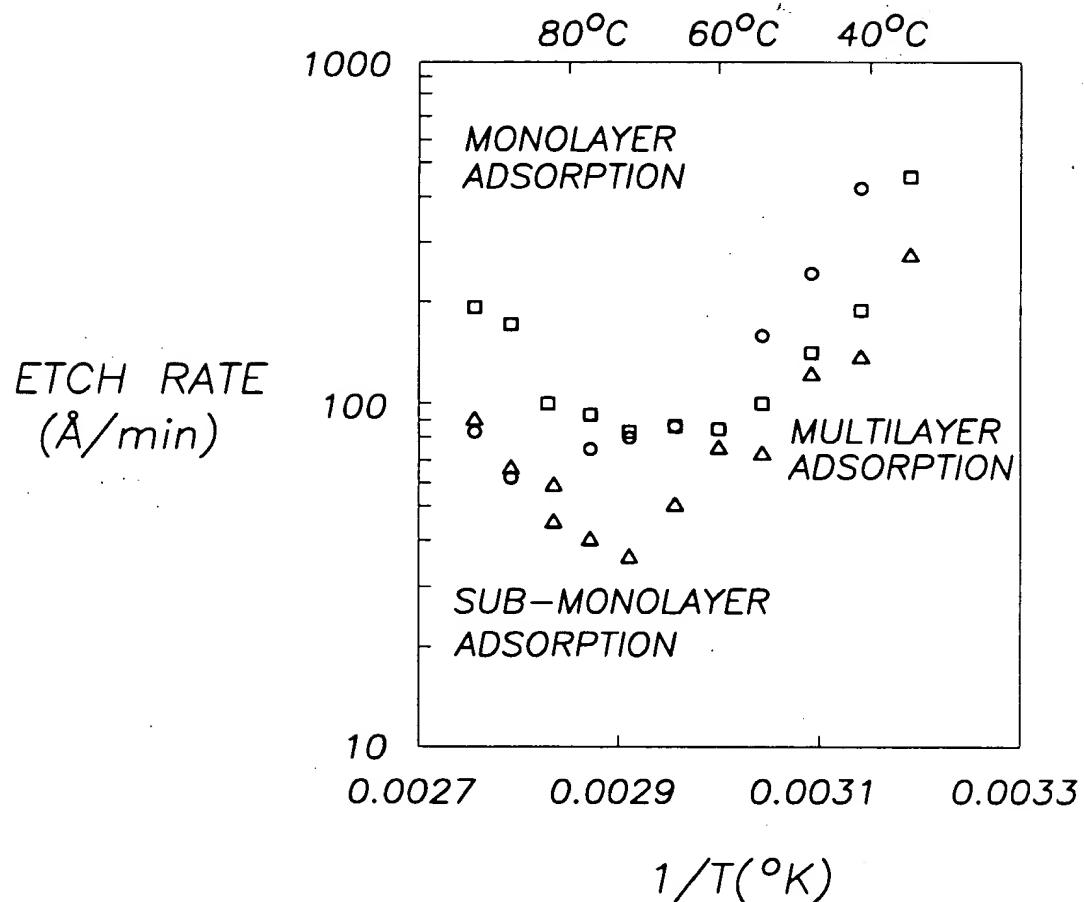


FIG. 9D



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FIG. 10



△  $\text{HF}/\text{H}_2\text{O} = 5/4 \text{ TORR}$   
□  $\text{HF}/\text{H}_2\text{O} = 10/4 \text{ TORR}$   
○  $\text{HF}/\text{H}_2\text{O} = 10/8 \text{ TORR}$

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FIG. 11A

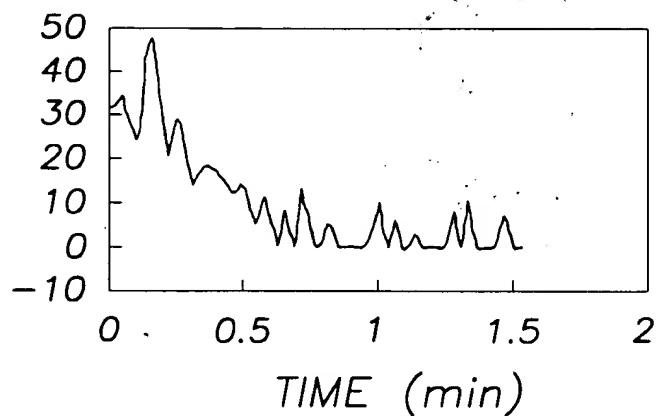
 $\psi(^{\circ})$  AT 4052 $\text{\AA}$ 

FIG. 11B

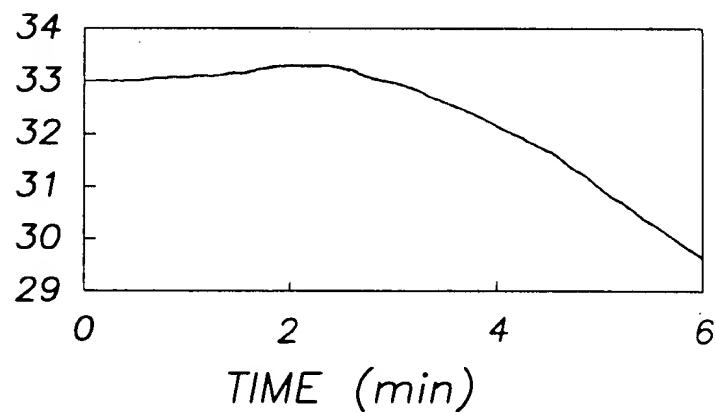
 $\psi(^{\circ})$  AT 4052 $\text{\AA}$ 

FIG. 11C

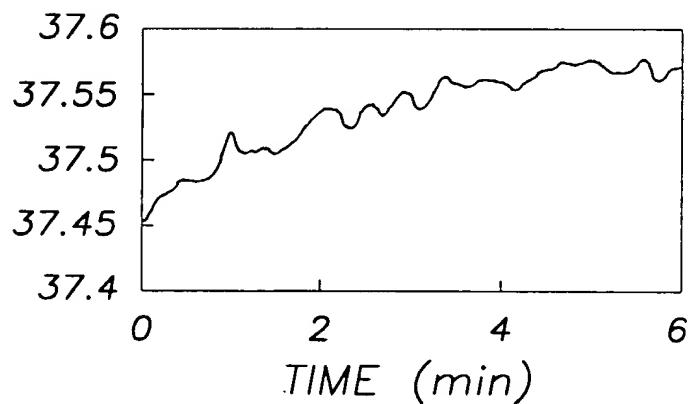
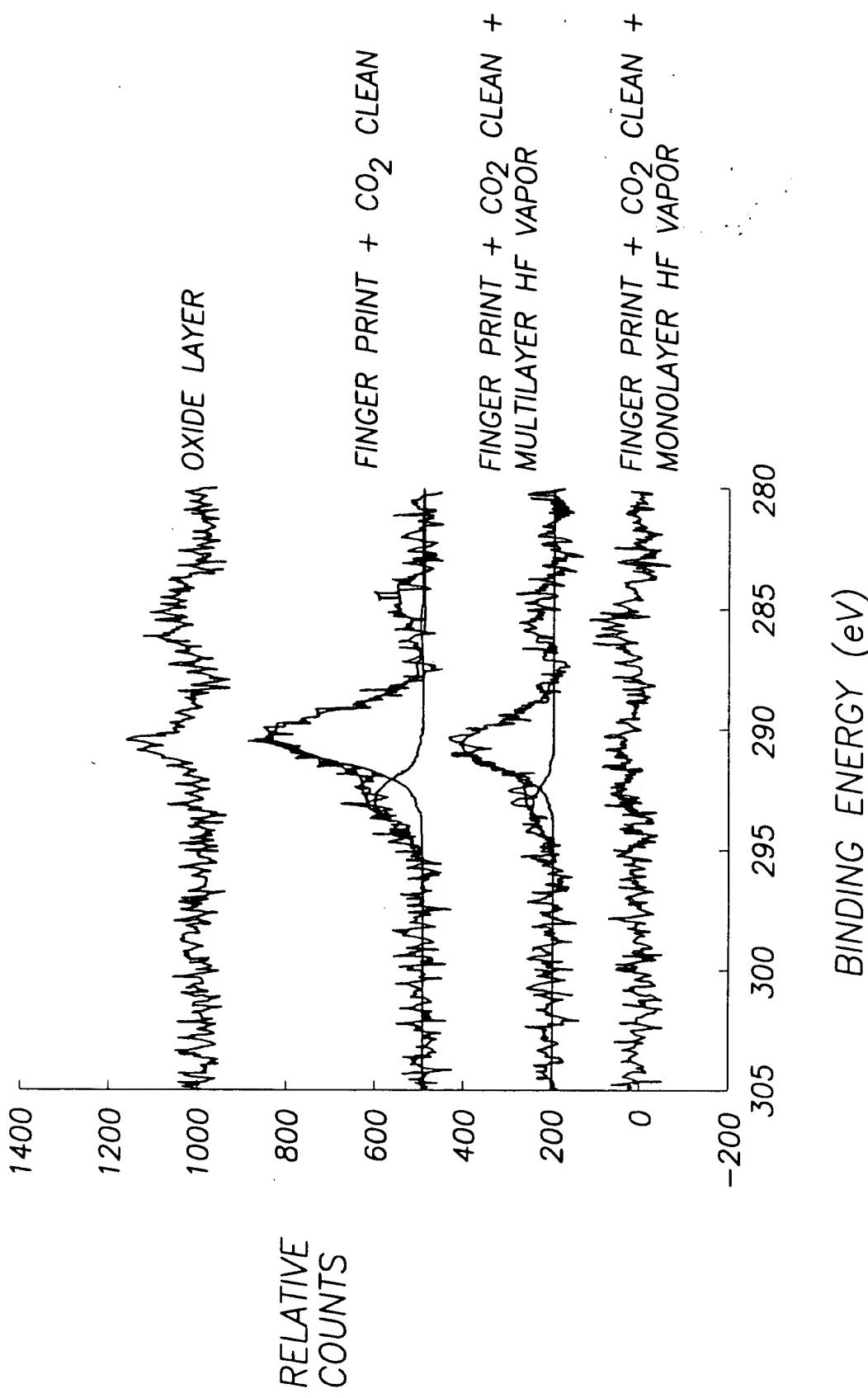
 $\psi(^{\circ})$  AT 4052 $\text{\AA}$ 

FIG. 12

CARBON 1s



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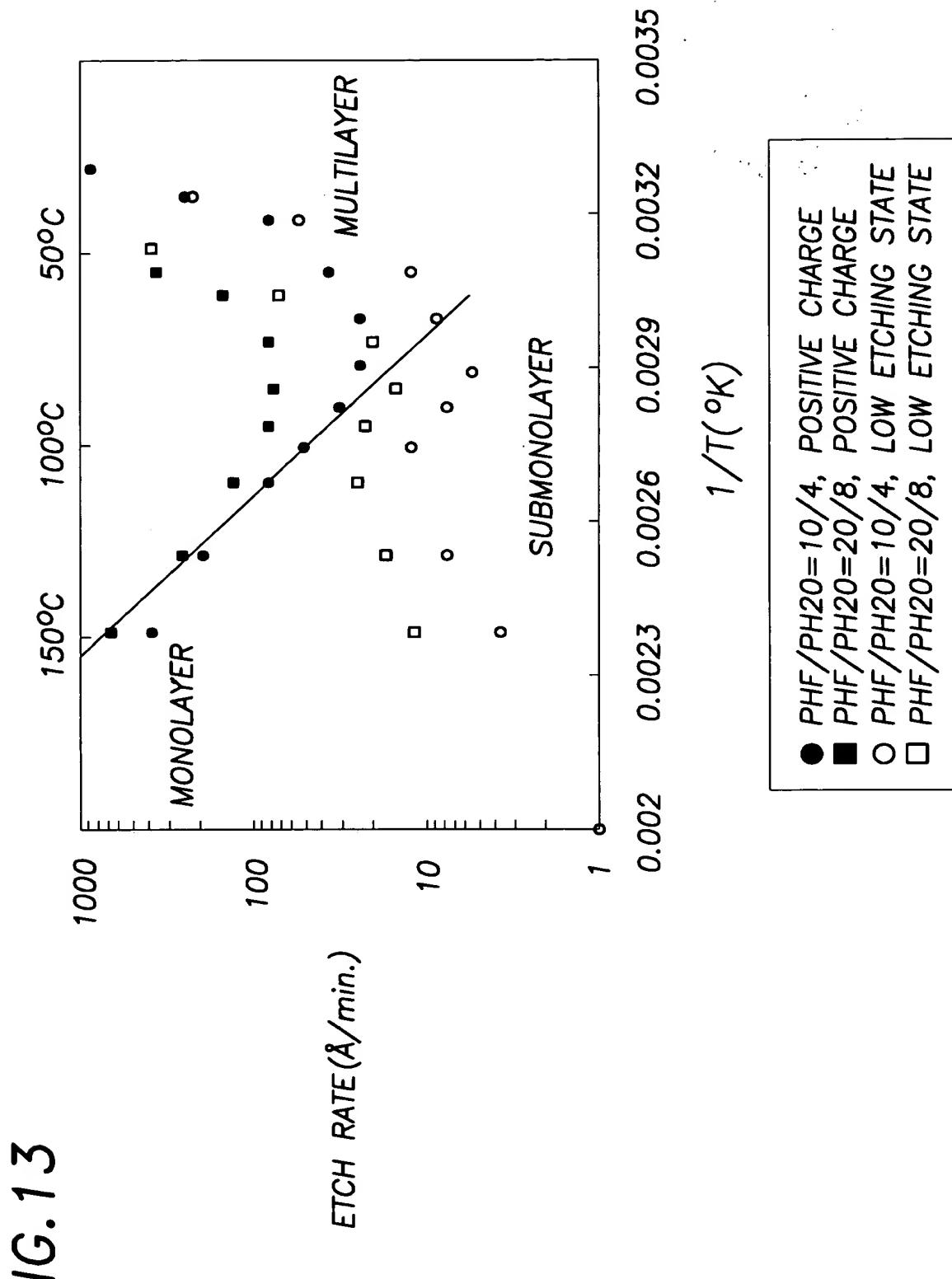


FIG. 14A

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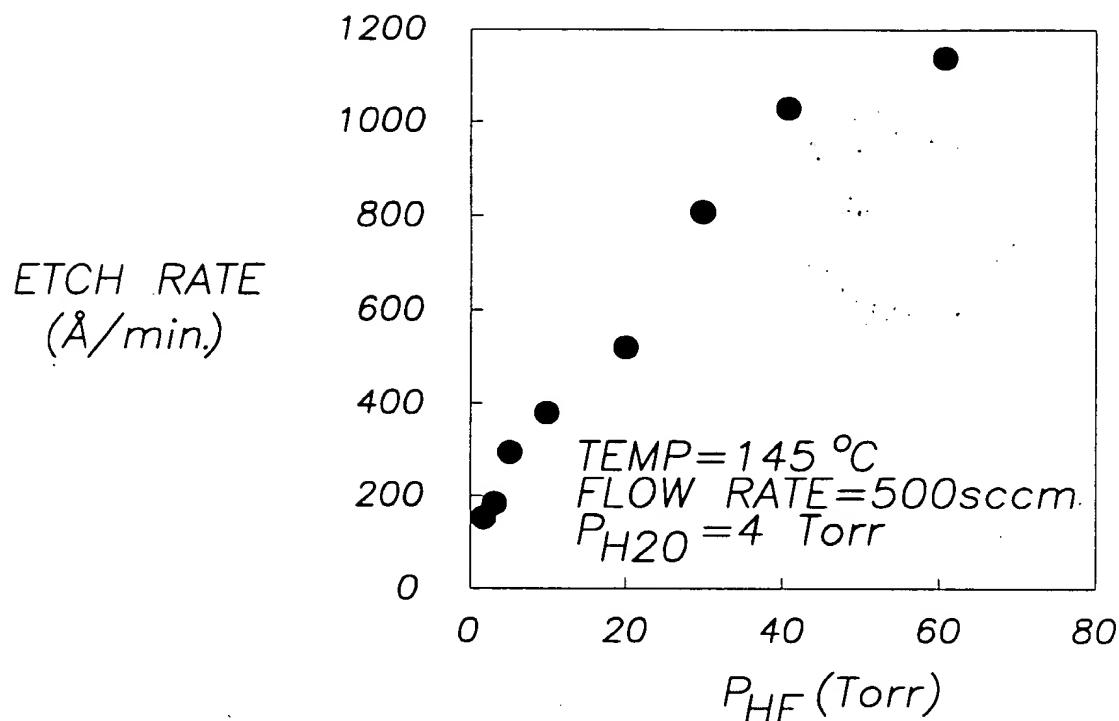


FIG. 14B

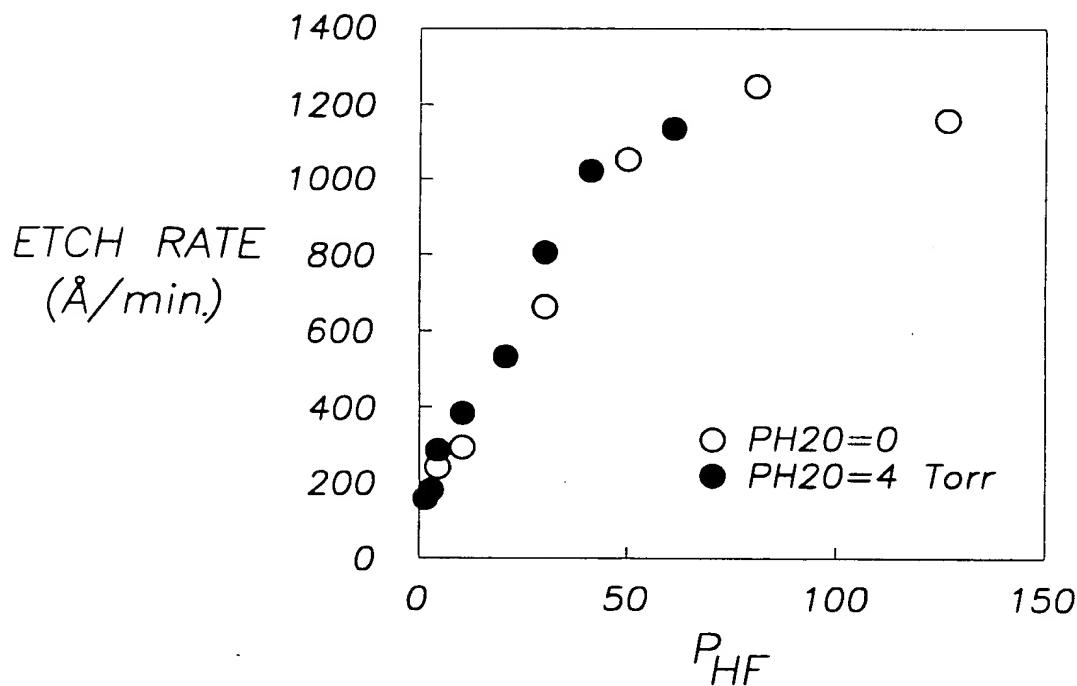


FIG. 15

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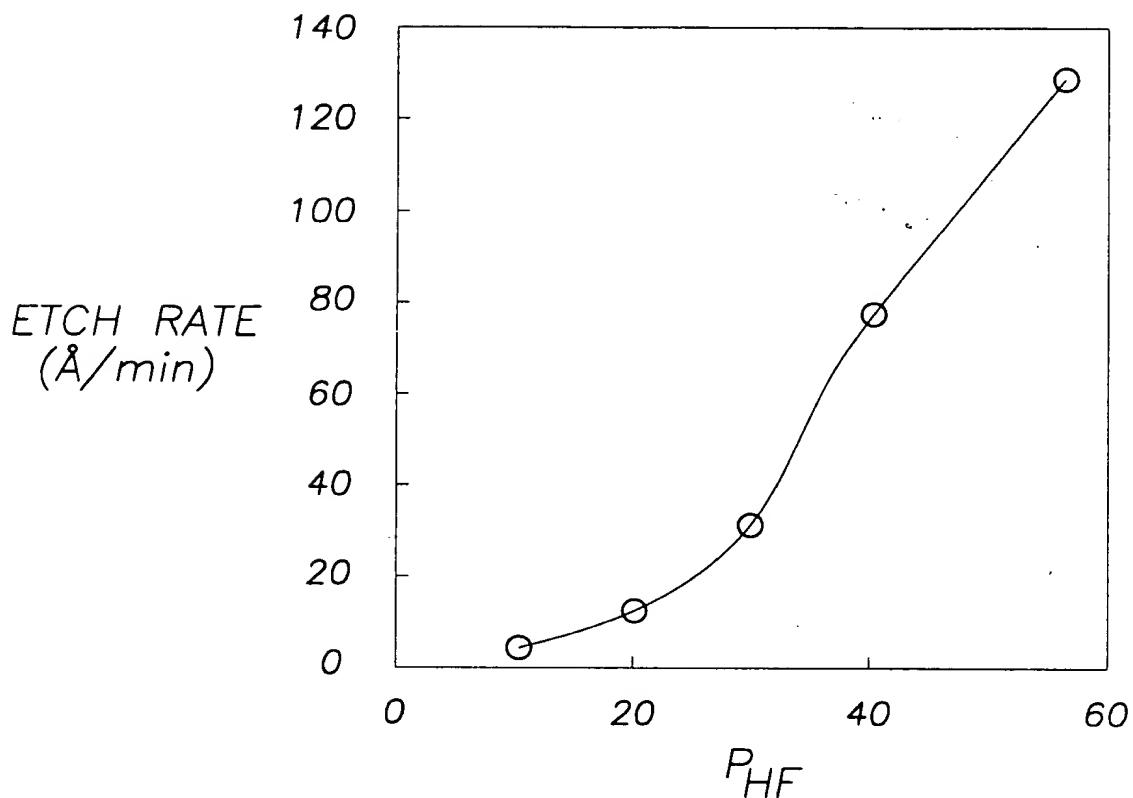
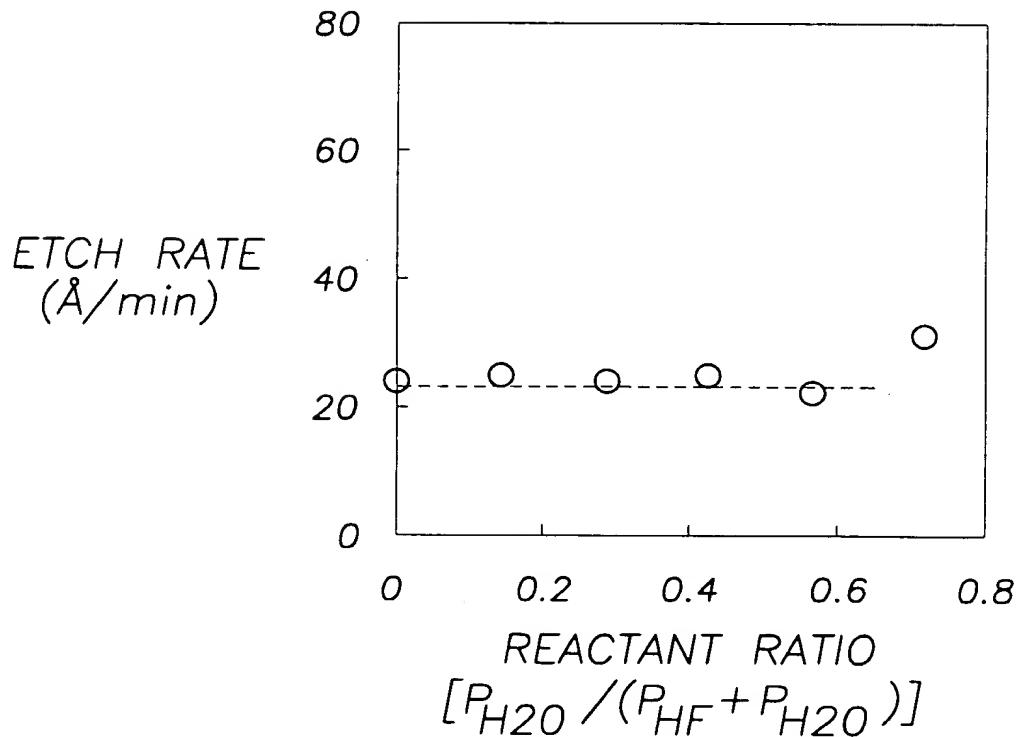
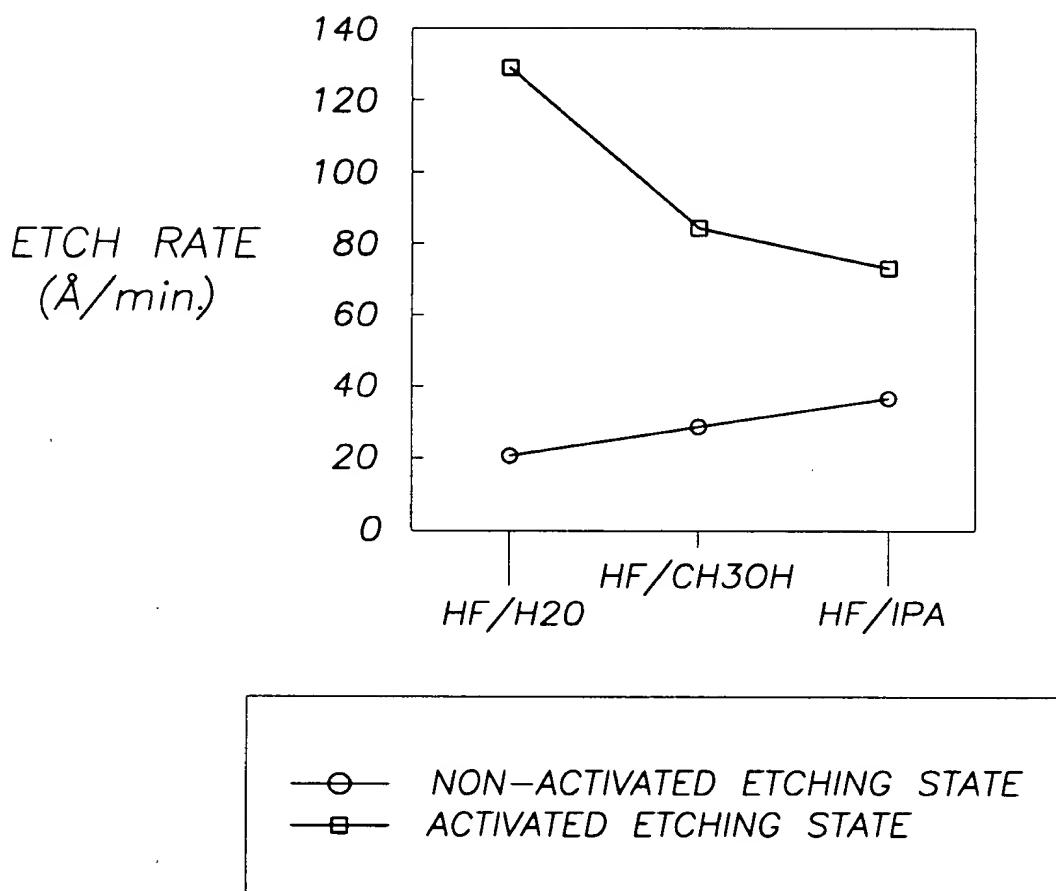


FIG. 16



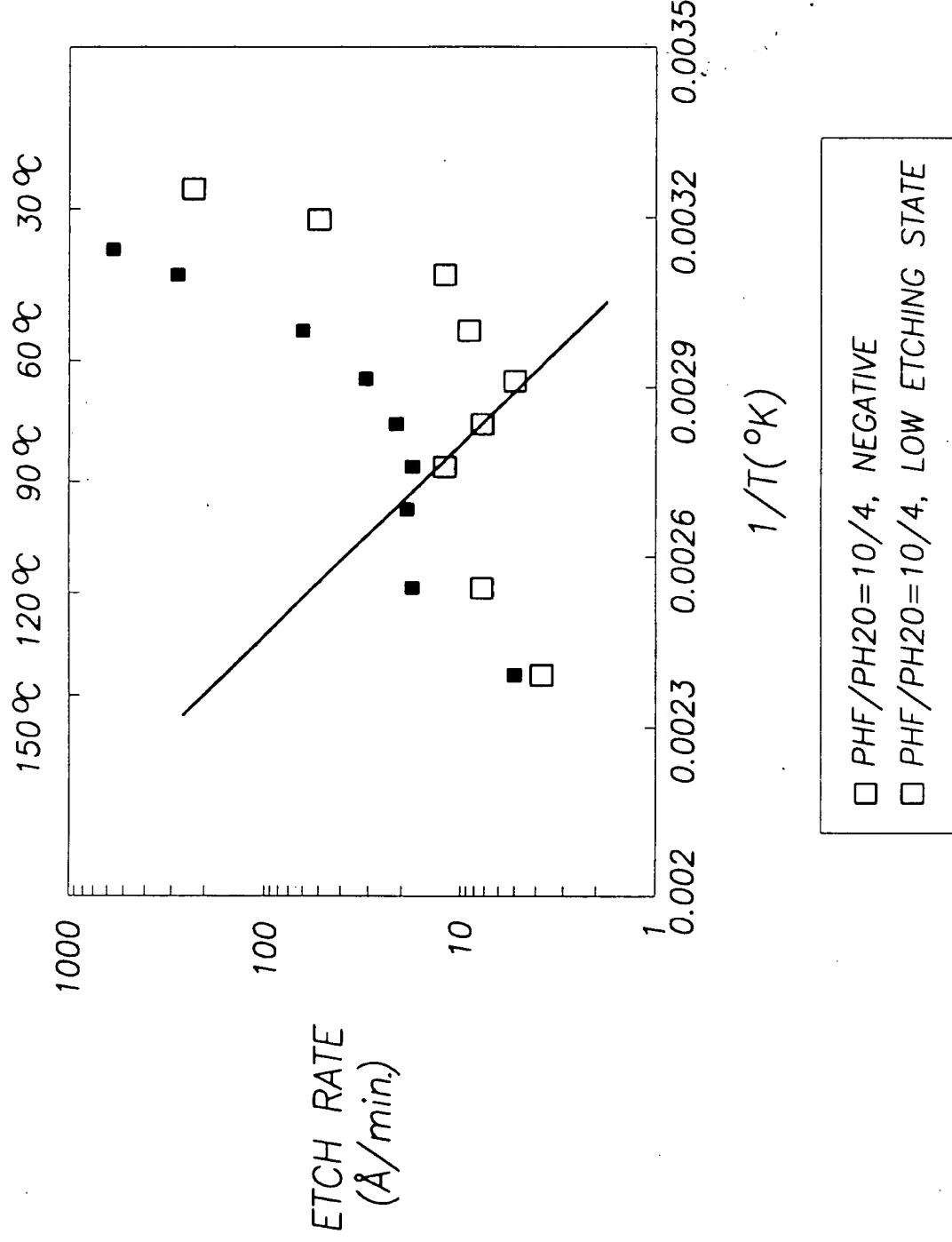
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FIG. 17



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FIG. 18



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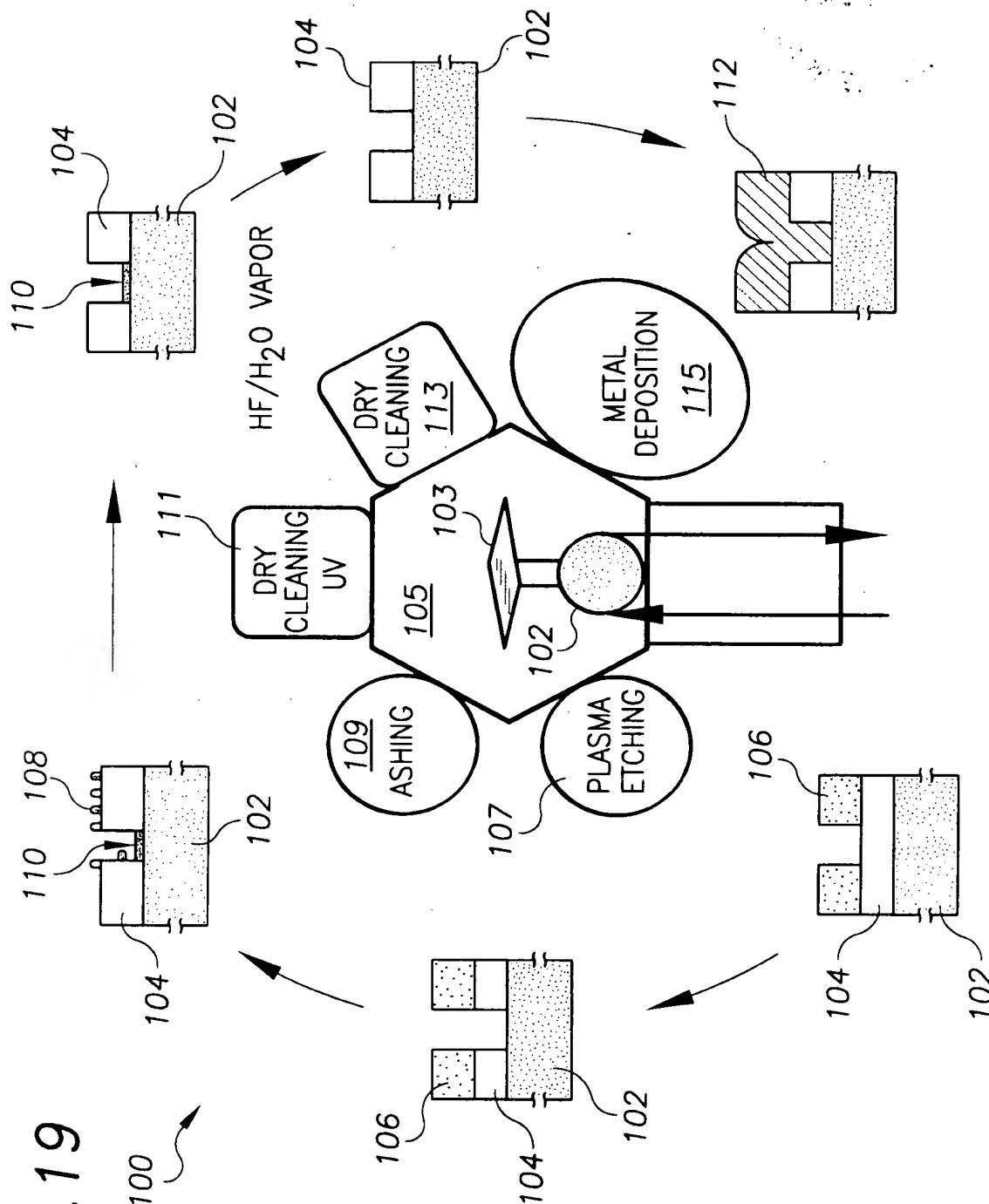


FIG. 19

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